

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Commerce and Trade

Agency: Department of Professional and Occupational Regulation (DPOR)

Project Formal Title: EAGLES (Electronic Access to the Government Licensing and Enforcement System)

Investment Status: Project Initiation Approval

Project Description:

EAGLES will be a web-enabled application implemented to replace two legacy systems, CLES and ETS. EAGLES will also support the agency's new business requirements. This project is in line with the Commonwealth's electronic government initiative, which requires that the Department be aligned closely with the Digital Signatures and COVA PIN initiative.

Project Scope:

This project scope includes the development of the EAGLES web-enabled application to replace the legacy systems, CLES and ETS, and the expansion of the system to include the Department's new business requirements. The new requirements are:

- License renewal
- Filing of licensure applications
- Alignment with the Digital Signatures and COVA PIN initiative

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Commerce and Trade

Agency: Virginia Employment Commission (VEC)

Project Formal Title: Financial Management System

Investment Status: Investment Business Case Approval

Project Description:

The Financial Management Accounting System will replace the current mainframe batch system. The new system will include modules for accounts payable, accounts receivable, general ledger, cost allocation, time distribution and procurement. Financial data will be processed in an on-line, real-time environment. These features will greatly improve efficiency in financial processes, availability of management information, and the accuracy of accounting reports, thus reducing the potential for audit findings.

Project Scope:

The VEC is participating in a study commissioned by the Virginia Enterprise Application Program (VEAP) to identify a solution for those agencies that need to replace their financial systems in the immediate future. The study is being conducted by North Highland. The need for this study arose as a result of discontinued funding for the VEAP program that was intended to replace the Commonwealth's "Central Systems" (CARS, PMIS, CIPPS, Probud, etc.). The VEC had been a participant in that project. VEC's new financial system will modernize the 40 year old financial system, eliminating significant risk and enabling new capabilities.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Commerce and Trade

Agency: Virginia Employment Commission (VEC)

Project Formal Title: Unemployment Insurance Modernization

Investment Status: Project Initiation Approval

Project Description:

The VEC needs to modernize the Unemployment Insurance Benefits and Tax (UIBT) system. The current system is based on VEC priorities identified in the mid-1980s. Since that time, the statutory environment and the business processes have changed. The current UIBT system is difficult to upgrade and costly to maintain when compared to systems that are available in today's market. As a result of these concerns, VEC has identified two goals for the Unemployment Insurance Modernization Project:

- Replace the existing UIBT applications using a foundation of new technology and improved design methods to improve flexibility and maintainability. This includes the ability to add new features and to incorporate system changes resulting from future law and policy changes.
- Improve the UIBT business processes to meet unemployment insurance business needs that have changed since the mid-1980s. The new business processes are targeted to be significantly more efficient and adaptable to wide swings in workload.

Project Scope:

The UIBT System will provide:

- Implementation of a Benefit Audit, Reporting and Tracking System that will support the prevention, detection, and processing of both fraudulent and non-fraudulent unemployment insurance overpayments. The system will facilitate several types of audits and help automate case management.
- Implementation of an Appellate Hub for Appeals that will provide end-to-end service for conducting conference call hearings, digitally recording hearings, archiving and retrieving hearings for review, and purging old recordings.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Education

Agency: College of William and Mary (CWM)

Project Formal Title: Telephone System Replacement (TSR)

Investment Status: Project Initiation Approval

Project Description:

This project will replace the College's PBX phone system with a modern VoIP phone system. The new system will provide expanded phone services to all College constituents by leveraging modern VoIP software functionality. Other benefits for the College include disaster recovery capabilities that meet the recovery time objectives of all essential College operations and compliance with federal E-911 requirements. The project will proceed in stages starting with a procurement phase, a system design phase, an implementation and testing phase, a system cutover and monitoring phase, and a closeout phase. Each phase will have a detailed plan and associated deliverables. The total project schedule will be approximately 18 months to 24 months (subject to change during detailed planning). Total estimated costs are approximately \$2 million dollars including hardware, software, and implementation services. Funding for this project is being secured through private funds.

Project Scope:

Project scope includes the following:

- Replace existing PBX with Shoretel's VoIP UC system
- Replace existing IBX phones with Shoretel VoIP phones
- Replace existing Octel voicemail system with Shoretel voicemail system
- Integrate new system with upgraded Mysoft billing system (separate project)
- Implement a compliant E-911 solution integrated with the new VoIP system
- Provide end-user training for the College community to facilitate the transition
- Surplus all old equipment

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Education

Agency: Department of Education (DOE)

Project Formal Title: State Longitudinal Data System (SLDS)

Investment Status: Project Initiation Approval

Project Description:

The Department of Education (DOE), in partnership with the Office of the Governor, the State Council of Higher Education (SCHEV), the Virginia Community College System, the Virginia Information Technologies Agency, and Virginia's workforce agencies, proposes to expand on the advancements we have made through our current Statewide Longitudinal Data Systems (SLDS) grant. In order to establish a comprehensive, longitudinal P-20 data system, the SLDS Grant Program proposed the following (refer to 'SLDS Grant Program vs. SLDS Project' for project exclusions):

- Create an integrated K-12 student-teacher information system that matches individual teachers to students
- Create a longitudinal data linking and reporting system with the ability to link data among state agency data sources, including K-12, higher education, and workforce systems
- Develop a web-based portal to provide one-stop access to education and workforce data by policymakers, educators, the public, program directors, researchers, etc.
- Design a data management and control system that enables us to maximize data quality, ensure accessibility with appropriate security, and enhance the usefulness of the data in both existing and proposed systems
- Develop a mechanism for postsecondary institutions to receive transcript data
- Develop an upgraded teacher certification system to enable VDOE to electronically capture information on the teachers' preparation programs

Project Scope:

The Department of Education (DOE) proposes to establish a comprehensive, longitudinal P-20 (preschool through postsecondary and workforce) data system. The project scope will address the following four major outcomes:

- Outcome 1: Create an integrated K-12 student-teacher information system that matches individual teachers to students
- Outcome 2: Create a longitudinal data linking and reporting system with the ability to link data among state agency data sources, including K-12, higher education, and workforce systems
- Outcome 3: Develop a web-based portal to provide one-stop access to education and workforce data by policymakers, educators, the public, program directors, researchers
- Outcome 4: Design a data management and control system that enables us to maximize data quality, ensure accessibility with appropriate security, and enhance the usefulness of the data in both existing and proposed systems

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Education

Agency: Jamestown-Yorktown Foundation (JYF)

Project Formal Title: Yorktown Museum Replacement – Technology

Investment Status: Investment Business Case Approval

Project Description:

This project will install the requisite technology components for the Yorktown Museum replacement project, including exhibit technology, audio visual components, wireless, data and telecommunications. The Yorktown Museum Replacement project will improve the necessary IT infrastructure in order to accommodate expected future visitation.

Project Scope:

The museum replacement project will:

- Replace the exhibitory that has exceeded its useful life
- Provide a properly sequenced visitor experience and eliminate troubled visitors attempting to find their way in the museum
- Provide an adequately sized changing gallery to provide a more effective impetus for repeat visitation. By maximizing the potential of the museum, the agency will achieve its educational and revenue generating potential.
- Include requisite technology components: data and telecommunication wiring; storage racks; relocation of servers, routers and workstations; audio visual systems; wireless network; kiosks; peripherals for point-of-sale terminals; building security; and exhibit audio visual and technology.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Education

Agency: Virginia Community College System (VCCS)

Project Formal Title: Human Resources Management System (HRMS)

Investment Status: Project Initiation Approval

Project Description:

The project is an implementation of a Human Resources System for the Virginia Community College System (VCCS) and 23 Colleges. Currently VCCS does not employ an automated enterprise solution for human resources management. Dependence on manual processes and dated external systems negatively impacts the VCCS' ability to remain competitive in today's higher education market and to meet VCCS business, educational, and public service missions. To address these problems, VCCS plans to implement the PeopleSoft HR modules. The proposed system will provide self-service access and business process support to students, faculty, and staff and improved workflow for major human resources functions performed throughout the VCCS colleges and Central Office. Enhanced interoperability with other VCCS internal and external application systems will provide additional benefits from information sharing.

Project Scope:

The project scope is the implementation of the PeopleSoft Human Resources modules and includes HR, Base Benefits, Benefits Administration (portion), portal, self service, and data conversion interfaces to CIPPS, EPAS and PMIS. The implementation includes modules for employee self service, time and labor, and recruiting. The project scope includes all phases of the project lifecycle. The specific lifecycle methodology to be employed will include Fit/Gap analysis, design, development, testing, training, and quality assurance reviews.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Education

Agency: Virginia State University (VSU)

Project Formal Title: ERP Upgrade Project 10-12

Investment Status: Project Initiation Approval

Project Description:

Upgrade the SunGard HE Banner ERP system from 7.x to the current 8.x version.

The Banner 8 project will consist of two phases:

Phase I: Out of the Box - No modifications will occur in Phase 1 to the base product unless required for the Financial Aid module to function.

Phase II: Customizations - New functionality along with workflow analysis will be evaluated to determine usability and customization requirements.

Project Scope:

Virginia State University (VSU) has a mission critical application, called SunGard HE Banner. This Enterprise Resource Planning (ERP) contains and integrates four (4) modules: (1) Human Resources, (2) Finance, (3) Financial Aid, and (4) Student. The current application software release is version 7. VSU is currently seeking a vendor with whom to partner in its planned upgrade of its SunGard HE Banner system to version 8.

Phase I: Out of the Box contains the following high level tasks

- Procurement of new hardware and storage space for database and application server needs
- Configuration of new hardware (Operating Systems, databases, applications)
- Installation and configuration of Oracle database
- Migration of production data to new database instance
- Conversion of new database to UTF-8 character encoding
- Installation/implementation of SunGard Banner 8 product
- Upgrading Banner 8 to Banner 8.x, with corresponding module upgrades
- User and system documentation and testing, regression testing for new environment
- Functional area staff training
- Functional testing of new environment
- Functional signoff by users.

Phase II: Customizations are as follows

- Gap Analysis
- Banner 8 Workflow Analysis
- Implementation of any new customizations and interfaces within Banner 8.x environment
- User and system documentation and testing, regression testing for new environment

Appendix C - 2011 Major IT Project Descriptions

- Functional area staff training
- Functional testing of new environment
- Functional signoff by user

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Finance

Agency: Department of Planning and Budget (DPB)

Project Formal Title: Performance Budgeting Solution

Investment Status: Project Initiation Approval

Project Description:

The project is the implementation of a performance budgeting system to replace the current budgeting and strategic planning applications (PROBUD, WebBEARS, Budgetwise and Expendwise). Today the Commonwealth's strategic planning and budget development processes use a wide range of disparate systems. These systems have limited integration and interfacing capabilities. A common problem shared throughout the enterprise is the need for the same budget data to be entered multiple times. Because of this, a great amount of time and effort is spent double-checking and verifying data to make sure it is "in balance."

Project Scope:

The Commonwealth currently relies on numerous systems, applications, and processes to support the Performance Budgeting business process. The recommended Performance Budgeting solution would include the following elements:

- A service delivery organizational structure that recognizes the wide range of differences among the various Commonwealth
- A phased implementation approach that gives the Commonwealth the opportunity to carefully control costs and risks, and to make implementation and rollout decisions based upon both project performance and other future conditions.

In the future, performance budgeting will be enhanced through six key process and policy changes:

- Extending the strategic planning horizon to three biennia
- Establishing strategic priorities
- Applying measurement and evaluation
- Initiating performance reviews
- Realigning base budgets
- Linking budgets, expenditures, and performance

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Finance

Agency: Department of Accounts (DOA)

Project Formal Title: Financial Management Enterprise Rollout

Investment Status: Identified for Preliminary Planning

Project Description:

This project will replace the Commonwealth's (Department of Accounts) current financial system, Commonwealth Accounting and Reporting System (CARS). It will be an Enterprise Resource Planning (ERP) implementation of General Ledger and Accounts Payable, the two accounting features currently contained within CARS.

Project Scope:

The system will be deployed to all current day CARS users and interfaced with the financial systems that currently interface to CARS. The scope of this project also includes the Change Leadership and Training components required to migrate from CARS to the new system.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Finance

Agency: Department of Taxation (TAX)

Project Formal Title: Telephony Replacement with VOIP

Investment Status: Investment Business Case Approval

Project Description:

This project will replace the Department's current phone system components with VOIP. This will allow the agency to eliminate its Rockwell Phone System and adhere with VITA strategic direction.

Project Scope:

This project replaces TAX's PBX phone system with Voice over IP to allow enhanced customer service and foster decision analytics to allow the agency to utilize human resources more efficiently. TAX's Rockwell and Genesys applications will be replaced by a VOIP call center. Existing functionality will be enhanced by allowing full call recording, call-back features, staffing predictions. The selected solution will be scalable to allow use by other agencies.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Health (VDH)

Project Formal Title: Electronic Death Registration (EDR)

Investment Status: Project Initiation Approval

Project Description:

The Electronic Death Registration (EDR) system is a proposed web-based system that would allow for the electronic capture of death data from funeral service licensees, state medical examiners and state physicians. The system would allow the VDH Division of Vital Records (DVR) and local health departments to issue and retain death certificates electronically as opposed to the manual process that is currently used. The Electronic Death Registration system is expected to reduce reporting delays, improve data quality, and increase the utility of death data.

Project Scope:

The Electronic Death Registration (EDR) system will allow DVR to go from a paper-based reporting system to an electronic filing system. The EDR will be a web-based system that will allow the many participants of the death registration process to remotely submit; register; and certify deaths occurring in the Commonwealth of Virginia. Electronic registration of deaths will gradually replace the current paper-based system. DVR is mandated by the Code of Virginia §32.1-273.1 to fully automate the system of vital records. The development of the EDR system will help fulfill this mandate and improve response time to customers, thus enhancing customer service and helping the division fulfill proposed federal mandates that will be set forth in the Intel Reform Act. This federal reform will impact the issuance and retention of all vital records across the nation. The proposed EDR system will also help DVR address their physical storage issues by helping to alleviate the growing need for more space to address the concern of retaining paper copies on site.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Health (VDH)

Project Formal Title: Women, Infants, and Children (WIC) Electronic Benefits Transfer (EBT) Project

Investment Status: Project Initiation Approval

Project Description:

The Women, Infants, and Children (WIC) Electronic Benefits Transfer (EBT) Project will develop and implement the business processes and associated technology to provide electronic WIC (e-WIC) issuance, redemption, payment, and reconciliation services to distribute food benefits in the Virginia WIC Program. The manual, paper-based system introduces numerous inefficiencies into the process. The project will require procurement of a number of services including support for the development of an Implementation Advanced Planning Document (IAPD), as required by the United States Department of Agriculture Food and Nutrition Service, Quality Assurance and Monitoring, and Design, Development, and Implementation of the selected e-WIC solution. The project will implement an online, outsourced EBT technology. A critical task of e-WIC will be to work with the retailer environment to seek feasible solutions for point-of-sale equipment and maintenance.

Project Scope:

The implementation of the WIC EBT project will:

- Provide Electronic Benefits Transfer (EBT) issuance, redemption, payment, and reconciliation services to distribute food benefits in the Virginia WIC Program
- Serve several customers including the Virginia WIC Program State and local agencies; WIC authorized retailers; and WIC participants
- Allow the SWO to more accurately monitor the food benefit issuance, redemption, and payment processes; ensure that participants purchase only allowable foods; and that retailers charge no more than the shelf price for WIC food items
- Reduce opportunities for fraud and increase accountability for the entire program.
- Reduce the time and effort local WIC agencies spend performing manual benefit issuance, void, and replacement processes allowing; and eliminate the waste created by misprinted food instruments and stub records
- Streamline the process for modifying or replacing food benefits in an emergency
- Allow policies for managing benefit changes to be programmed into the system alleviating the need to manually calculate prorated benefits
- Develop and implement EBT business policies, processes and procedures
- Interface with the Crossroads WIC management information system currently under development by a consortium of state WIC agencies including the Virginia WIC agency
- Use an electronic food prescription that specifies particular food items, quantities of the food items that can be purchased, the time period within which the food items must be purchased, and the maximum value associated with these food item purchases

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Medical Assistance Services (DMAS)

Project Formal Title: HIPAA Upgraded Code Sets (ICD-10)

Investment Status: Investment Business Case Approval

Project Description:

The Centers for Medicare and Medicaid Services (CMS) has proposed regulations requiring that all X12 Transactions be upgraded to the 5010 versions and that the ICD-10 version of the code sets be implemented. DMAS must implement the new versions in order to remain HIPAA compliant and continue to receive and send electronic eligibility, claims, and payment data with approximately 50,000 providers and 300 plus service centers. Implementation of the changes will require modification to the MMIS and extensive provider outreach and trading partner testing.

Project Scope:

The scope of the Upgraded Code Sets (ICD-10) project includes:

- Updating the CMS mandated ICD-10 code sets on the MMIS
- Processing health care transactions in a timely and accurate manner in accordance with all HIPAA standards

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Medical Assistance Services (DMAS)

Project Formal Title: HIPAA Upgraded Transactions (5010)

Investment Status: Project Initiation Approval

Project Description:

The Centers for Medicare and Medicaid Services (CMS) has proposed regulations requiring that all X12 Transactions be upgraded to the 5010 versions and that the ICD-10 version of the code sets be implemented. DMAS must implement the new versions in order to remain HIPAA compliant and continue to receive and send electronic eligibility, claims, and payment data with approximately 50,000 providers and 300 plus service centers. Implementation of the changes will require modification to the MMIS and extensive provider outreach and trading partner testing.

Project Scope:

The scope of the Upgraded Transactions (5010) and Code Sets (ICD-10) project includes:

- Updating the CMS mandated 5010 transactions on the MMIS
- Processing health care transactions in a timely and accurate manner in accordance with all HIPAA standards

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Medical Assistance Services (DMAS)

Project Formal Title: Executive Support System (ESS)

Investment Status: Project Initiation Approval

Project Description:

DMAS must comply with the American Recovery and Reinvestment Act (ARRA). CMS provides other ad hoc funding for supporting tasks in Health Information Technology (HIT) and Electronic Health Records (EHR). In preparation for measuring provider incentive programs in EHR adoption, DMAS will be implementing an Executive Support System (ESS) that will allow for tracking and monitoring of “Meaningful Use” of provider electronic health record systems. Additionally, funding through the Robert Wood Johnson Foundation Grant will cover the general fund costs for the ESS as it can be leveraged to provide maximum enrollment reporting for Maternal and Children Health initiatives.

Project Scope:

The scope of the projects is to implement an Executive Support System that will have initial DMAS defined data input files and report output requirements. The tool will allow for monitoring and tracking business performance for increased enrollment activities. A second phase, post implementation, will identify Provider Incentive payments as well as Quality of Care reporting requirements.

In addition to ARRA, the ESS in the future will be used to assist in Fraud analysis. The project will serve as an initial repository for setting up provider information with the ability to extract reporting.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Behavioral Health and Developmental Services (DBHDS)

Project Formal Title: Electronic Health Records

Investment Status: Investment Business Case Approval

Project Description:

The Electronic Health Records project will replace legacy systems with integrated clinical applications sharing an electronic medical record repository.

Project Scope:

The scope of the project is to implement an electronic medical record repository and clinical applications at each DBHDS facility and Central Office. The project would replace legacy systems and integrate with recent IT investments such as AVATAR for patient/resident admissions, discharges, and reimbursements.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Behavioral Health and Developmental Services (DBHDS)

Project Formal Title: Medication Management System

Investment Status: Project Initiation Approval

Project Description:

The Medication Management System will replace the legacy pharmacy system with an integrated medication management application sharing an electronic medical record repository.

Project Scope:

The scope of the project is to implement a medication management system that utilizes an electronic medical record repository at each DBHDS facility. The project would replace legacy systems and integrate with recent IT investments such as AVATAR for patient/resident admissions, discharges, and reimbursements. The project would also replace the outdated In-Patient and Aftercare pharmacy systems.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Social Services (DSS)

Project Formal Title: Automated Child Care Subsidy Payment System

Investment Status: Project Initiation Approval

Project Description:

Implement a Child Care Subsidy Payment System (CCSPS) for Child Care Subsidies. The CCSPS will allow for real-time documentation of attendance and enable the program to better address issues relating to improper use of subsidies. This will save local and state administrative time and costs and result in a more efficient operation of the program. A payment system will provide a mechanism to reduce program fraud through payment tracking and alerts, thus reducing program costs and the repayment of funds to the federal government. It will also save staff resources required to track the federal, state, and local shares of improper payments identified and collected. This will assure that all state and local dollars can be extracted before reimbursements are made to the federal government. The system will also assist with Federal reporting, permitting Virginia to move from sample reporting to a statewide population reporting system for mandated federal reports, which will relieve local departments of manually reporting data each month for the compilation of recipient data for Federal reports. An automated payment system will also allow for prompt payment for services to child care providers, reduce local costs associated with invoice verification and processing and reduce the possibility of human error. It is expected that the program will be able to identify all providers who receive payments through the Child Care Subsidy Program, track payments made to those providers, identify and reduce potential fraud, and relieve local departments of labor intensive provider payment procedures.

Project Scope:

The CCSPS will include:

- Real-time documentation of attendance
- Payment tracking and alerts, including tracking of the federal, state, and local shares of improper payments identified and collected
- Federal reporting, permitting Virginia to move from sample reporting to a statewide population reporting system for mandated federal reports
- Automation to relieve local departments of manually reporting data each month for the compilation of recipient data for federal reports
- An automated payment system for child care providers
- System for identifying all providers who receive payments through the Child Care Subsidy Program

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Social Services (DSS)

Project Formal Title: Enterprise Delivery System Program (EDSP) – Customer Portal Project

Investment Status: Project Initiation Approval

Project Description: The Enterprise Delivery System Program represents four major projects: the EDSP Worker Portal, the EDSP Customer Portal, the EDSP Master Customer ID and the EDSP Document Management Imaging System. The four major projects are the foundation for implementing the VDSS vision of a self-service model that is efficient, effective and provides a streamlined customer friendly experience. Within the vision, clients will be able to file applications for benefits or services through an online application process, report changes, and manage benefit “accounts” online. Most required materials and verifications documents will be scanned and stored electronically, and whenever possible, verification of required information will be captured electronically through a web-based service. Workers will be able to work efficiently through a web based portal that facilitates access to and data sharing with multiple legacy systems, spending more time providing quality service, case management, and accurate determinations of eligibility.

The Enterprise Delivery System Program will be managed as a program with multiple projects associated under its umbrella. This program is high priority for VDSS and has the full support of the Commissioner and the Secretary of Health and Human Resources. The guidance and decisions will come from an established Leadership that will govern across all projects. There will be common goals, objectives, and shared resources. Projects will be introduced incrementally under the EDS Program.

VDSS is acquiring customer portal technology within the current Automated Child Care Subsidy Payment System Project that possibly may be reused by this project. The solution Virginia will be acquiring includes portal functionality and process flow for multiple programs and has been implemented in approximately ten (10) states and was developed as a single, integrated system for multiple public assistance programs. VDSS is performing due diligence in assessing the opportunities that exist by expanding this Customer Portal feature for other programs as an agency enterprise investment. This web-based solution is J2EE architecture and aligns with the Department’s enterprise technology standards.

Project Scope:

The EDSP-Customer Portal Project will:

- Deliver a web-based portal system through which customers will be able to:
 - File applications for services or benefits through an online application process
 - Report changes and manage benefit “accounts” online
 - File renewal applications for services or benefits through an online renewal process
- Allow customers to request services or benefits for the following programs:
 - SNAP (Supplemental Nutrition Assistance Program)
 - TANF (Temporary Assistance for Needy Families)
 - Medicaid
 - LIHEAP (Energy Assistance) programs
- Display case information to the customer, through secure access in the Customer Portal. This information will come from data in the case management system via a web service.
- Streamline processes allowing the data entered by the customer to populate data elements in the case management system electronically for multiple public assistance programs

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Social Services (DSS)

Project Formal Title: Enterprise Delivery System Program (EDSP) – Worker Portal Project

Investment Status: Identified for Preliminary Planning

Project Description: The Enterprise Delivery System Program represents four major projects: the EDSP Worker Portal, the EDSP Customer Portal, the EDSP Master Customer ID and the EDSP Document Management Imaging System. The four major projects are the foundation for implementing the VDSS vision of a self-service model that is efficient, effective and provides a streamlined customer friendly experience. Within the vision, clients will be able to file applications for benefits or services through an online application process, report changes, and manage benefit “accounts” online. Most required materials and verifications documents will be scanned and stored electronically, and whenever possible, verification of required information will be captured electronically through a web-based service. Workers will be able to work efficiently through a web based portal that facilitates access to and data sharing with multiple legacy systems, spending more time providing quality service, case management, and accurate determinations of eligibility.

The Enterprise Delivery System Program will be managed as a program with multiple projects associated under its umbrella. This program is high priority for VDSS and has the full support of the Commissioner and the Secretary of Health and Human Resources. The guidance and decisions will come from an established Leadership that will govern across all projects. There will be common goals, objectives, and shared resources. Projects will be introduced incrementally under the EDS Program.

With a worker portal, workers will have improved capabilities for accessing the various VDSS systems required to support benefit and service delivery. They will be able to more efficiently complete business processes in a centralized location and focus on meeting the needs of customers.

Project Scope:

The EDSP-Worker Portal Project will deliver a Web-based portal system for workers that will:

- Utilize a common authentication system, such as Active Directory, and move toward using a common authorization system using a role-based security model.
- Provide a single sign-on access point to multiple systems.
- Include a Web Emulator that will provide access to legacy systems.
- Improve, enhance and re-engineer administration (management of operations, security, and resources) and service delivery with a solution that is modern, streamlined and technology-based with the capability for integration of data sharing, coordination, and accountability
- Centralize security and system access
- Improve worker efficiencies
- Improve customer service

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Health & Human Resources

Agency: Department of Social Services (DSS)

Project Formal Title: Enterprise Delivery System Program (EDSP) – Master Customer ID Project

Investment Status: Identified for Preliminary Planning

Project Description: The Enterprise Delivery System Program represents four major projects: the EDSP Worker Portal, the EDSP Customer Portal, the EDSP Master Customer ID and the EDSP Document Management Imaging System. The four major projects are the foundation for implementing the VDSS vision of a self-service model that is efficient, effective and provides a streamlined customer friendly experience. Within the vision, clients will be able to file applications for benefits or services through an online application process, report changes, and manage benefit “accounts” online. Most required materials and verifications documents will be scanned and stored electronically, and whenever possible, verification of required information will be captured electronically through a web-based service. Workers will be able to work efficiently through a web based portal that facilitates access to and data sharing with multiple legacy systems, spending more time providing quality service, case management, and accurate determinations of eligibility.

The Enterprise Delivery System Program will be managed as a program with multiple projects associated under its umbrella. This program is high priority for VDSS and has the full support of the Commissioner and the Secretary of Health and Human Resources. The guidance and decisions will come from an established Leadership that will govern across all projects. There will be common goals, objectives, and shared resources. Projects will be introduced incrementally under the EDS Program.

The EDSP – Master Customer ID Project will accomplish the component of the vision that addresses providing a Master Customer ID that is universal and does not change over time and provides a consistent interface for customer demographic data entry and management. A Master Customer ID solution will provide a numbering algorithm that will be used as the MCID for a customer across application systems that support various social services program areas. While not directly impacting customers, a Master Customer ID solution supports other EDSP focus areas by providing a single persistent ID that can be used by all other VDSS systems.

Project Scope:

The EDSP- MCID Project will deliver a Web-based system that will:

- Provide a universal, permanent, and unique identifier for a customer across VDSS programs and services
- Provide a composite view of a customer, overcoming the current usage of different identifiers and different representations of the same data within VDSS systems
- Utilize a numbering schema that has a wide enough range to hold a large volume of numbers to support growing caseloads
- Provide a common user interface for managing specified customer demographic data

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of Corrections (DOC)

Project Formal Title: Electronic Healthcare Medical Records

Investment Status: Identified for Preliminary Planning

Project Description:

Currently, inmate medical records are in paper form and these documents are not integrated in Virginia CORIS. VADOC would like to automate these healthcare records and integrate the medical records with Virginia CORIS.

The DOC existing operations will realize efficiencies as a result of this automation by:

- Capturing of inmate medical records in an electronic form for portability
- Improving clinical staff access to inmate medical records for purposes of patient care
- Improving capture and routing for all documents, while ensuring the security and integrity of the medical records
- Supporting compliance efforts with HIPAA standards
- Providing simultaneous access of system by medical professionals for clinical, administrative, and other healthcare operations
- Integrating with Virginia CORIS which is the DOC Offender management system
- Reducing paper based file management and storage, which would lessen the amount of physical space
- Supporting re-entry initiatives including post release medical care

Project Scope:

The scope for Health records, will include Medical and Mental Health (Pharmacy, Dental, etc are also possibilities) for offenders across the Commonwealth. As an integrated offender management System, a critical component of Virginia CORIS is the inclusion of Offender Medical Records. Currently we have Medical files on all offenders in paper format and we are unable to track expenses effectively without an integrated system.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of Corrections (DOC)

Project Formal Title: Electronic Contents Management

Investment Status: Identified for Preliminary Planning

Project Description:

Purchase and implement an electronic records management system for the DOC including offender paper records, and other administrative paper records utilized within the Department that can be associated with an offender, an employee, or other entity. Currently, a consolidated electronic records management system for the DOC does not exist.

Project Scope:

The scope for Electronic records management system for the DOC will include offender paper records and other administrative paper records utilized within the Department, which can be associated with an offender, an employee, or other entity.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of Corrections (DOC)

Project Formal Title: Financial and Human Resources ERP Package

Investment Status: Identified for Preliminary Planning

Project Description:

The Financial and Human Resources ERP Packages project will purchase and install a human resources management application and a financial systems software application to automate the DOC functions in those areas across the Commonwealth. The DOC is unable to maintain current automated data in a useable format to actively manage the large employee base (12,500 employees) and the large annual budget (\$800 million) required to operate this large public safety organization in an efficient manner.

Project Scope:

Currently, no automated single system solution is available at DOC for HR and Financial Management. As a public agency we have an obligation to the citizens of Virginia to manage our resources in the most efficient manner possible and still achieve our organizational mission.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of Corrections (DOC)

Project Formal Title: Phase 2 and 3 Virginia Correctional Information System (CORIS) Program

Investment Status: Project Initiation Approval

Project Description:

The Department of Corrections (DOC) has established an automated Offender Management Information System (OMS) Program, now called VirginiaCORIS. This is a major technology effort and is critical to the successful accomplishment of the DOC mission. The VirginiaCORIS Program will be composed of multiple major projects, and will result in a single, fully integrated system that should replace most of the DOC's current offender-related application portfolio. The selected solution is already in production in other state DOCs, with some additional required functionality being developed and planned for deployment in the next 12 months. The first project of the VirginiaCORIS Program (the procurement and installation of the Offender Sentence Calculation application) was successfully completed. The current projects implement Community Corrections and Institution Operations components.

Project Scope:

This project will address the procurement of software licenses and implementation of the Community Corrections and the Institutional Operations components of the VirginiaCORIS Program.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of State Police (VSP)

Project Formal Title: AFIS

Investment Status: Identified for Preliminary Planning

Project Description:

This project will upgrade the current AFIS system hardware and software to the new NEC Integra ID system. This new system will be installed at the VSP central site and will offer added flexibility in the automated workflow options and specifications. The proposed redundant hardware solution will offer improved Disaster Recovery possibilities. The proprietary hardware matchers will be replaced with off-the-shelf hardware and software matching.

Project Scope:

The current AFIS system - hardware and software - will be replaced with a state-of-the-art system with greater flexibility in the automated work-flow options and specifications. The new AFIS will provide hardware redundancy which may lead to more robust disaster recovery options. The proprietary hardware matchers will be replaced with off-the-shelf hardware and software matching.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of State Police (VSP)

Project Formal Title: Law Enforcement Activity Management System

Investment Status: Project Initiation Approval

Project Description:

The LEAMS project will provide a comprehensive system to support the documentation of criminal investigations and related law enforcement activities and reduce the agency's dependence on burdensome paper-based workflows and difficult-to-change legacy technologies. The system will make use of up-to-date technology to upgrade process controls, management/supervisory oversight, data quality, processing timeliness, system access, analytical tools, and intra-agency and inter-agency cooperation needed to maintain quality law enforcement records as mandated under §15.2.-1722 of the Code of Virginia.

Project Scope:

The system will include the following capabilities:

- Create electronic intake documents to record and track all requests for VSP
- Create and manage electronic files for investigations
- Send and receive work using electronic workflow management
- Conduct investigative analysis
- Secure information not only to control system access, but to facilitate internal and external information sharing
- Automatically notify investigators when certain updates are made by other users that may impact their investigation
- Electronically capture incident timeline information
- Provide a comprehensive system to record and track all evidence retrieved, held, and disposed of by VSP personnel
- Record and track legal documents received by VSP personnel and link them to activities performed by VSP personnel to serve or otherwise respond to these documents
- Record and properly secure information on Confidential Sources so that they can be linked to investigative files and activities without jeopardizing their anonymity
- Expunge records when ordered by a court
- Interface with the following VSP systems: Criminal Funds Accounting System (part of FACTS), Incident Based Reporting (IBR) repository
- Interface with the following external systems: National Data Exchange (N-DEX) and the Law Enforcement Information Exchange (LInX)
- Convert data from legacy systems that is still needed by users.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of State Police (VSP)

Project Formal Title: Replacement and Enhancement of the Central Criminal History (CCH) Application

Investment Status: Investment Business Case Approval

Project Description:

The Centralized Criminal History (CCH) application is a component of the larger Central Criminal Records Exchange (CCRE) system. CCH is more than 30 years old, and many of its capabilities are based on a proprietary emulation package, which limits the Virginia State Police (VSP) ability to use the updated infrastructure on which it resides. The project includes purchasing of consulting services to gather requirements and develop an implementation plan for either the replacement or enhancement of the CCH system. Once the requirements have been gathered, the agency will survey the market to determine whether a suitable commercial off-the-shelf (COTS) package exists or whether development will be necessary. The project also includes planning for implementation of the system, including installation and deployment of the software at VSP and training services for VSP staff and local agencies.

Project Scope:

The scope of the project includes:

- Either the replacement or enhancement of the CCH system at VSP and at local agencies
- Either the replacement or enhancement of the Consolidated Applicant Tracking System (CATS) and the AFIS Messaging system, because they are tightly integrated with the current CCH system
- Support real time interfaces with other state agency systems such as Supreme Court and Department of Corrections
- Improve reporting flexibility through use of a standard reporting package
- Decrease the time to modify the software in response to legislative requirements
- Improve user interfaces
- Adopt national XML standards (GJXDM) resulting in improved interfaces with other state and local systems

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of State Police (VSP)

Project Formal Title: Replacement and Enhancement of the Statewide Incident-Based Reporting System (IBRS)

Investment Status: Investment Business Case Approval

Project Description:

The project will either replace or enhance the current statewide IBRS which operates on legacy technology and does not meet the needs of the law enforcement community in Virginia. Consulting services will be used to gather the requirements for the target system. Once the requirements have been gathered, the agency will survey the market to determine whether a suitable commercial off-the-shelf (COTS) package exists, or whether development will be necessary. The project also includes planning for implementation of the system, including installation and deployment of the software at Virginia State Police (VSP), and training services for VSP and the local agencies.

Project Scope:

The Replacement or Enhancement of IBRS will:

- Provide local and state agencies with efficient access to IBR data with improved ad-hoc report generation capability developed using an industry-standard reporting tool
- Upgrade data submission standards to include Offense Tracking Numbers (OTNs), National Data Exchange (N-DEx) and the Global Justice XML Data Model (GJXDM); it is also probable that data standards related to the Law Enforcement Information Exchange (LInX) will be included
- Link IBR data with criminal history, wanted persons and other databases using incident numbers, OTNs and State IDs (SIDs)

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of State Police (VSP)

Project Formal Title: Statewide Agencies Radio System (STARS)

Investment Status: Project Initiation Approval

Project Description:

The Statewide Agencies Radio System (STARS) Program will upgrade the existing Virginia State Police land mobile and microwave radio networks and make state of the art communications technologies available to more than 20 state agencies. STARS will create an integrated, seamless, statewide, wireless voice and data communications system designed to meet the needs of these agencies. STARS will also upgrade mobile radios, portable radios, and vehicular repeater systems. Localities and federal organizations can be added as full-time STARS users/partners when appropriate. The STARS Program will provide participating agencies with a cost-effective systems approach that enables interoperability between federal, local, and Commonwealth government agencies.

Project Scope:

The system will be shared by agencies engaged in public safety, protection, and service and will facilitate interoperability with and between localities at the county and city level. Radio communications for the Virginia components of the National Weather Service's Integrated Flood Observing and Warning System (IFLOWS) network are also being upgraded as part of this program.

The STARS program will:

- Increase capacity
- Upgrade the technology
- Enhance coverage of the land mobile radio network
- Implement statewide law enforcement mobile data
- Create disaster recovery alternate paths for the microwave radio network

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of State Police (VSP)

Project Formal Title: STARS Asset Management Tracking System

Investment Status: Investment Business Case Approval

Project Description:

The Statewide Agencies Radio System (STARS) Program needs an asset management and tracking system to provide up to date inventory information and historical tracking of radio and tower assets and equipment. Motorola, under the terms of the STARS contract, provides an inventory system for VSP's STARS equipment. This inventory system does not provide timely information on the STARS assets and inventory. Nor does it provide historical tracking of assets. In addition, once 60,000 items are in the inventory, Motorola's charges for the system will greatly increase. Currently, VSP has over 40,000 items in inventory.

Project Scope:

The implementation of an asset tracking system will:

- automate STARS inventory control and tracking procedures
- allow for single point of data capture via automated tools such as bar code scanners replacing existing clerical procedures
- provide on-line access directly into STARS inventory allowing immediate historical tracking of an asset's life cycle, even after it is placed into service within the STARS environment
- generate ad hoc queries on demand
- interface with other eBusiness products such as Service (NOC Help Desk) and Fixed Assets, and provide asset configuration management throughout the life cycle of an asset
- provide cost effective real time tracking of information

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Public Safety

Agency: Department of State Police (VSP)

Project Formal Title: Virginia Intelligence Management System (VIMS)

Investment Status: Investment Business Case Approval

Project Description:

In 2005, the Virginia Fusion Center (VFC) was formed within Virginia State Police to focus on counter terrorism intelligence investigations and analysis. The VFC is a joint operation between VSP and the Virginia Department of Emergency Management (VDEM). VSP currently operates a system for statewide intelligence, Tactical Intelligence Processing System (TIPS). VSP plans to replace and enhance the TIPS system since it is based on proprietary technology (Mapper) and has limited functionality.

VSP seeks to procure an intelligence management software system (Intelligence System) that can provide the Virginia Fusion Center with a means to track, link, and analyze persons, places, things, and events of interest to the Virginia Fusion Center. The Intelligence System will import data from a variety of disparate data sources including user input, commercial data sources, government data sources, and the Internet.

Project Scope:

Purchase of an intelligence package/development services, integration services, and implementation of a Fusion Center repository of intelligence information. This system will be implemented in the VSP Fusion Center and will replace the legacy Tactical Intelligence Processing System (TIPS).

The Virginia Intelligence Management System will support Virginia's Fusion Center intelligence information collection, management, sharing, analysis, and dissemination. The goals for VIMS are to:

- Protect, mitigate, or respond to terrorist and criminal activity
- Enhance officer safety
- Support VFC investigative and analytical activities

VIMS will provide the Virginia Fusion Center the tools to intake, review, classify, analyze, prioritize, disseminate, and reevaluate intelligence data in a 28 CFR Part 23 compliant system operated by VSP. VSP VFC staff will be available to support agencies that do not have an intelligence capability and will use VIMS to manage their cases.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Technology

Agency: Virginia Information Technology Agency (VITA)

Project Formal Title: Commonwealth Master Data Management

Investment Status: Investment Business Case Approval

Project Description:

The purpose of this project is to:

- Stand up a shared authentication service.
- Procure MDM software and hardware as part of Commonwealth Authentication Service (CAS).
- Plan and execute transition of CAS from DMV to VITA management at conclusion of DMV Pilot.
- Establish procedures and governance rules concerning authentication.

Project Scope:

The scope of this project is to:

- Provide a shared authentication service, CAS, utilizing the DMV customer file as the authoritative source for authenticating customers of Commonwealth Services.
- Procure and implement a Master Data Management technology solution including Commonwealth and HIE MPI.
- Coordinate with HIE Governance and Technical vendor for integration with HIE. Manage tool configuration in cooperation with DMV, HHR agencies and HIE.
- Coordinate with DMV, DSS and HIE for initial pilots.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Technology

Agency: Virginia Information Technology Agency (VITA)

Project Formal Title: Commonwealth Service Oriented Architecture

Investment Status: Investment Business Case Approval

Project Description:

The purpose of this project is to procure, install, maintain and configure an infrastructure to support a Service Oriented Architecture (SOA). The underlying components will include Enterprise Service Bus (ESB), Universal Description Discovery & Integration (UDDI), Business Process Execution Language (BPEL), Business Activity Monitoring (BAM) and Web Service Manager.

Project Scope:

The service oriented architecture (SOA) consists of a number of Commercial Off The Shelf (COTS) products. The major components include an Enterprise Service Bus (ESB), a workflow engine, and a business rules engine. The Virginia Information Technology Agency (VITA) has been working closely with the HIT/MITA effort since the inception. The MITA vision contemplates extensive program agnostic interoperability. To achieve the objective, a cost shared technical environment is necessary so all business entities can interoperate with government systems as policy allows. VITA is in a singular position in Virginia to provide this technical infrastructure as an offered service in particular as most state government systems are already hosted by VITA in their data center(s). Further, VITA can architect a cohesive technical solution using existing Agency projects as well as ensure future IT projects/procurements leverage the technology, standards, and processes.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Motor Vehicles (DMV)

Project Formal Title: Commonwealth Authentication Services

Investment Status: Investment Business Case Approval

Project Description:

Through the collaboration of the Technology, Health and Human Resources, and Transportation secretariats, on-line identity authentication services will be built for all Commonwealth agencies to use. The Commonwealth Authentication Services (CAS) project will implement a COTS project with the assistance of an implementation partner so that DMV, DSS, DMAS and the Health Information Exchange (HIE) can all leverage a common authentication system for users to gain access to selected customer-facing systems. The CAS system will be hosted, operated and maintained by VITA as a shared service, and participating agencies will pay to use CAS. Once CAS is fully operational, additional agencies will be encouraged to convert over from their own point-solutions to CAS.

Project Scope:

After determining the enterprise needs for identity authentication, implement the centralized authentication service that all agencies can tap into. Among the three participating agencies, demonstrate the viability and value of CAS for selected systems within DMV, DSS and DMAS. DMV will configure a COTS product to establish a CAS system that authenticates citizens and businesses using Master Data Management (MDM) technologies. The CAS system will be made available to all Executive Branch agencies. The DMV development will be limited to a pilot between DMV, DMV and VITA. The CAS project will have significant dependencies with the concurrent MDM project.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Motor Vehicles (DMV)

Project Formal Title: DMV CSI System Redesign Project – Development and Implementation

Investment Status: Project Initiation Approval

Project Description:

The CSS Redesign focuses on the fragmented processing of DMV's three major business areas: driver, vehicle, and motor carrier. The purpose of the redesign is to transform these fragmented fifteen year old systems into one modernized system that is responsive to the ever-changing needs relating to internal security, homeland security, legislative mandates, and customer relationship management. DMV has a unique opportunity to revolutionize the agency's approach to fulfilling its mission, carrying out core functions, and delivering service. DMV intends to fully integrate processing while incorporating and leveraging the full functionality and benefits of proposed technology solutions as well as the technology already in place.

Project Scope:

The solution to the fragmentation/modernization issue may come in the form of commercial off the shelf software, and in-house development effort, or a combination of both. The expected outcomes of the project include:

- Duplication of records eliminated
- Cases of identity fraud significantly reduced
- Criminal activity risks significantly reduced or eliminated
- Secure data shared between headquarters and service centers
- Ability to more quickly respond to government mandates
- Total time of customer's visit to DMV significantly reduced
- Record management that allows the tracking of customers and their related records across all critical business areas and related platforms
- Entire libraries of information (policies, procedures, etc.) available at each DMV customer service workstation.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Motor Vehicles (DMV)

Project Formal Title: On-Demand Registration Card and Validation Sticker Program

Investment Status: Identified for Preliminary Planning

Project Description:

The On-Demand Registration Card and Validation Sticker Program will post an RFP to replace the current vehicle registration card and decal printing solution with a print-on-demand system in HQ, 43 DMV Selects, 74 customer service centers, Virginia Correctional Enterprises and potentially 1201 dealers and fleets. The print-on-demand vendor will provide hardware, supplies, and software, which will allow DMV to capture each registration and decal issued out of each service outlets. DMV will pay the vendor per transaction, and the vendor will own and maintain all hardware. The result of this project will decrease the number of FTEs used to produce decals within HQ, reduce consignment, reduce waste, eliminate a labor intensive registration and decal production, set-up a back-up decal system, increase decal security, and reduce field consignment.

Project Scope:

The On-Demand Registration Card and Validation Sticker Program will provide vendor owned and maintained hardware, supplies, and software for a print-on-demand vehicle registration card and decal printing system.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: Cardinal

Investment Status: Project Initiation Approval

Project Description:

VDOT is seeking to replace its FMS II application. The new system will serve as the agency's financial management system of record. The functional scope of the project includes General Ledger, Accounts Payable, Accounts Receivable, Project Accounting, Purchasing, and Time and Attendance. A second phase of the project will be the establishment of a second instance of the application to serve as the basis for a statewide ERP. The statewide instance, or VEAP Base, will have General Ledger and Accounts Payable functionality.

A goal of the project is to have very limited software modifications; therefore, a significant Business Process Reengineering (BPR) effort is envisioned. A key element of this project is to establish data standards for financial management. VEAP will work closely with DOA, Department of General Services (DGS), Department of Human Resources and Management (DHRM) and VDOT to implement these standards. As part of the establishment of enterprise data standards, the requirements defined in the Commonwealth Business Architecture will be reviewed to ensure consistency with any new standards.

Project Scope:

FMS II is a critical component of VDOT operations. It processes many agency-critical transactions (purchase orders, vouchers, bills, payroll files) and "touches" an estimated 18 applications (10 internal, 8 external) who require financial data to successfully process a business transaction. The system needs to be replaced in order to remove the operational risks associated with an unsupported application. There is currently no statewide standard for enterprise financial management systems. The VDOT project, with strong DOA and EAD representation, will serve as the foundation for an enterprise solution for the Commonwealth. As a second phase of the project, VDOT will work with EAD and DOA to implement a second instance of the ERP solution for the GL and AP functional areas. This system will serve as the EAD "Base" for which an enterprise financial management system can be built. As additional resources are available to the Commonwealth, the system can be rolled out to additional agencies and additional functionality can be implemented to achieve all of the benefits of an ERP. These additional efforts would be part of subsequent projects - not part of the VDOT Cardinal Project.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: FMS Data Mart- Sun Set

Investment Status: Investment Business Case Approval

Project Description:

The implementation of the Cardinal Project will necessitate the sun setting of both the FMSI and FMSII Financial Systems. Highway FMS Data Mart- Sun Set will sunset the FMSI and FMSII Financial Systems and create a Financial Data Store for reporting purposes.

Project Scope:

This sun setting project will provide the following deliverables:

1. Provide a strategy and approach for the FMSII System Retirement that will address:
 - documentation and records retention
 - data archival – data archival products
 - data deletion policies
 - system access and restrictions
 - system components archival
 - operations shutdown schedule
 - removal of VITA-NG Support Services (hardware/networks)
 - licensing issues
 - removal of software from active use
 - propose software restore strategy
 - interface shutdown – internal and external
 - potential audit issues
 - help desk response strategies
 - ongoing support cost estimates
 - continued access to Financial Data - Data Retrieval
 - creation of Financial Data Marts housing historic FMS data
2. Coordination of the FMSII System shut down with Cardinal FMS implementation requirements. This will involve working with both the Fiscal and Cardinal business customers.
3. Data Mart reporting requirements will be defined in collaboration with VDOT business customers.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: Highway Performance Monitoring System (HPMS)

Investment Status: Project Initiation Approval

Project Description:

The Highway Performance Monitoring System (HPMS) supports the Roadway Network Systems (RNS) program within the Department of Transportation (VDOT). The HPMS project includes adding new data fields to RNS for new data; adding classified public roads to the Highway Traffic Records Information System (HTRIS); building a user interface to add/edit data in RNS; and developing a means of managing and creating a file to send all required data to the Federal Highway Administration (FHWA). Currently the legacy system Highway Traffic Records Information System (HTRIS) can not accommodate the new requirements for additional fields and geospatial data. Accuracy of the reported data from the Roadway Network System (RNS) HPMS module will be improved where road data is geospatially referenced.

Project Scope:

The scope of the project includes:

- New fields and data required by FHWA
- Producing annual data for the FHWA
- Providing geospatial capability that is mandated by FHWA
- Up-to-date technology that will allow turning off an old mainframe system
- Providing more accurate roadway information that will result in Federal funding

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: Inventory Module (Cardinal)

Investment Status: Investment Business Case Approval

Project Description:

The project will replace the WebIMS application with the PeopleSoft Inventory Module. This will integrate the inventory function at VDOT with the Cardinal system. This implementation is required because the current application technology is reaching the end of its productive life, and the business process warrants it be incorporated within the financial system. Microsoft Corporation ended support for Active Server Pages software in 2008 and it is no longer possible to make changes to certain sections of the application.

Scope:

The Project scope will include replacing the VDOT WebIMS Inventory application, which is written in Active Server Pages, with the PeopleSoft Inventory Module. This will integrate the inventory function at VDOT with Cardinal. In addition, the business processes of the applications of WebIMS will be re-engineered to increase performance and minimize modifications to the COTS software.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: Maintenance Infrastructure Management System

Investment Status: Investment Business Case Approval

Project Description:

This project will enable VDOT to select vendors who are experienced and knowledgeable to provide a complete commercial application solution that will serve the Agency for the next 8 to 10 years in its mission to manage, operate, and maintain the transportation assets of the Commonwealth, modernize and streamline operations utilizing state of the art technology and standard business practices, while providing a safe and fluid traveling experience for the public. VDOT is looking for a state-of-the-art application that will satisfy requirements serving 5 primary functional areas necessary for current and anticipated needs:

- Inventory
- Work Flow Management
- Public Safety
- Resource Planning & Scheduling
- Work Planning and Budgeting
- Analysis and Reporting

VDOT seeks to acquire software, hardware, and configuration and implementation services to support the integration, environment management, data conversion, interfacing, training, and post-production support (for 12 months).

Customers served by this project include: Districts, Residencies, and Area Headquarters Highway Maintenance and Construction Programs, the Asset Management Division, Equipment Section, Capital Assets and Inventory Control, Financial Management, Internal and APA Auditors, Joint Legislative Audit and Review Commission (JLARC), Employee Safety and Health Division, Operations Planning, and the Security and Emergency Management Division and general public using transport infrastructure services.

Project Scope:

MIMS will be a fully featured Maintenance and Facilities Management System that will allow VDOT System Operations to do the following:

- Manage Inventory
- Perform Facilities Management
- Manage Maintenance and Operations Workflow
- Conduct resource planning and scheduling
- Evaluate annual and biannual maintenance and operations needs

Appendix C - 2011 Major IT Project Descriptions

- Provide analysis and reporting capabilities to support these functions
- Provide Web-based and mobile access for creation and maintenance of all data related to asset management
- Adhere to the management guidelines and principles set forth by the Commonwealth of Virginia, and any policies and procedures issued by SoTech

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: Roadway Inventory Management System

Investment Status: Project Initiation Approval

Project Description:

The Roadway Inventory Management System (RIMS) supports the Roadway Network Systems (RNS) program within the Department of Transportation (VDOT). RIMS involves a process redesign that will assist RNS in providing road inventory and attribute data on Straight Line Diagrams (SLDs) and maps. The current process and systems for capturing roadway inventory data are slow, inefficient and do not portray an accurate picture of the ground truth. No mapping capability is present today. Upon completion, RIMS will support RNS in providing streamlined business processes; timely updates to inventory; advanced inventory query and reporting; enhanced mapping functions; improved performance; and eliminate duplicate data entry for road inventory within the Database for Administering Changes in VDOT Highway Systems (DACHS) application.

Project Scope:

The scope of the project includes:

- Providing road inventory and attribute data on Straight Line Diagrams (SLDs) and maps
- Implementing multiple linear referencing methods (Intersection/Offset, Route/Mile point, Latitude/Longitude, Street Addressing)
- Providing workflow design based on streamlined business processes
- Eliminating duplicate data entry for road inventory within the Database for Administering Changes in VDOT Highway Systems (DACHS) application
- Providing timely (real-time or near real-time) updates to inventory
- Providing advanced inventory query and reporting
- Improved performance and enhanced mapping functions

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: Roadway Centerline (VGIN Merge)

Investment Status: Project Initiation Approval

Project Description:

The Commonwealth of Virginia has established the goal that for each type of data there will be a single source system of record. In addition, the Commonwealth Chief Information Officer (CIO) has mandated that the Roadway Network System (RNS) migrate to and use the enterprise road centerlines (E-RCL) maintained by the Virginia Geographic Information Network (VGIN). This project supports achievement of both goals by addressing two main business problems: 1) the existence of multiple sources of road centerline (RCL) data, and 2) the duplication of effort required to maintain these multiple data sets.

The E-RCL data is critical to the Commonwealth. To meet state and Federal reporting requirements, VDOT must have access to an accurate and up-to-date geospatial inventory of all public roads, whether VDOT- or locally-maintained. In particular, RNS and its Roadway Inventory Management System (RIMS) component have a critical dependency on the common E-RCL source produced by this project, since this E-RCL will become the basis for the official VDOT RCL. In addition, the E-RCL project supports critical local government requirements, Enhanced 911 needs, and other Commonwealth enterprise uses.

Project Scope:

The scope of the project includes the following:

- Define an efficient workflow, methodology, set of business rules, and a common data structure for coordinating and maintaining the E-RCL between VGIN and VDOT
- Implement an architecture that allows both VDOT and VGIN to make E-RCL changes
- Test and implement the workflow, methodology, tools, and architecture for all of the public roads in five initial counties for conversion, including interstates and primaries in those five counties. The five counties for conversion are:
 - 1) Accomack
 - 2) Northampton
 - 3) Montgomery
 - 4) Frederick
 - 5) Loudoun
- Transition the project into a steady state for ongoing maintenance of the five completed counties, with an established methodology for converting to the remainder of the E-RCL for the Commonwealth
- Estimate the effort to process all the public roads in the remaining counties
- Processing the public roads in the remaining counties is out of scope and will be a separate, ongoing maintenance process

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: SharePoint 2010

Investment Status: Investment Business Case Approval

Project Description:

An upgrade will be made to the agency intranet 'InsideVDOT' currently powered by Microsoft SharePoint 2003 software. Since the current software has not been supported since 2009, an upgrade to Microsoft Office SharePoint Server 2010 is necessary to support the added functionality.

The VDOT Customer Service Center portal (CSC), used by CSC agents interacting with the Commonwealth's citizens and roadway users is built on Microsoft Office SharePoint 2007 which needs to be migrated to the SharePoint 2010 environment.

SharePoint 2010 will provide continued workforce collaboration with improved MS Office integration and business workflow features. This upgrade will allow users to more closely link with MS Office by providing increased collaboration tools and functionality, document management, workflow for forms, and support basic business intelligence functions. The intranet is the primary knowledge sharing tool for VDOT and the improved functionality of SharePoint 2010 will increase workforce collaboration and improve work management.

Project Scope:

An upgrade will be made for the agency intranet 'InsideVDOT' currently powered by Microsoft SharePoint 2003 software. The upgrade to Microsoft Office SharePoint Server 2010 is required. In addition to added functionality, the current software stopped being supported in 2009. The VDOT Customer Service Center portal (CSC) used by CSC agents interacting with the Commonwealth's citizens and roadway users is built on MOSS 2007 which needs to be migrated to the SharePoint 2010 environment.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: Transportation Planning Module in RNS

Investment Status: Identified for Preliminary Planning

Project Description:

The RNS Program currently contains many data elements necessary for transportation planning data analysis. With the Roadway Inventory Management System, VGIN Centerline, Urban Conversion Project, and Highway Performance Monitoring System projects coming online as part of the RNS Program, additional critical data elements will become available. This data, in conjunction with the RNS application interfaces to support detailed data analysis and comprehensive geospatial processing, will provide the infrastructure to support vital transportation planning analytics, travel demand modeling, and long range planning activities.

Project Scope:

This project will address planning data analysis for the following systems only; Roadway Inventory Management System, VGIN Centerline, Urban Conversion Project, and the Highway Performance Monitoring System.

Appendix C - 2011 Major IT Project Descriptions

Secretariat: Transportation

Agency: Department of Transportation (VDOT)

Project Formal Title: Urban Conversion

Investment Status: Investment Business Case Approval

Project Description:

VDOT will outsource management, collection and processing of urban road data transformation activities. Specifically, this is a data delivery project that will clean and normalize the current VDOT urban roads inventory (UMIS) files to comply with national data standards in terms of street name conventions. Cleaned UMIS road data will then be available for data maintenance activities in the Urban Module of the Roadway Network System (RNS) application. Ultimately, UMIS road data will be geospatially enabled or sequenced following RNS methods so that discrepancies between actual lane miles and current inventory of lane miles can be calculated and displayed as part of the RNS mapping network.

Project Scope:

The scope of the Urban Consolidation Project is an up to date urban roadway center line with a normalized database, addressing, and connectivity that enables the creation of a street name-based linear referencing system. To accomplish the goal, this project will select a vendor to implement the methods, models and tools developed as part of the UCP Pilot initiative, to be utilized for the remaining Virginia localities within the UMIS dataset. The compliant road data will then be migrated into RNS.